

## IN THE SPECIFICATION

Please replace paragraph [0059] with the following marked up paragraph:

[0059] A scale  $j \in \{1 \dots J\}$  is assigned to each block, so that a cost function  $\Lambda$  is maximized,

$$S_{opt} = \arg \max_{S \in \{1 \dots J\}^{M \times N}} \Lambda(S, B) \quad (8)$$

where  $S_{opt}$  is the optimal segmentation map for the entire image,  $S$  is one of the  $J^{MN}$  possible labelings. of In one embodiment, each blocks represents a pixel of an image of size  $M \times N$  with each block pixel assigned one of the scales in  $\{1 \dots J\}$ , and  $\Lambda(S, B)$  yields the cost given any segmentation  $S$  and any entropy distribution  $B$ . In another embodiment,  $S_{opt}$  is the optimal segmentation map for the image composed of blocks, greater than one pixel, of size  $m \times n$ .